

**Mississippi Wildlife Habitat Incentive Program**  
**Mississippi State WHIP Plan**

**I. OBJECTIVES**

The Mississippi WHIP Plan as approved by National Headquarters and in keeping with the guidelines of the national goals is designed to accomplish the following objectives:

1. To offer the opportunity to participate in the WHIP program to as many landowners as possible.
2. To establish priorities that will add selected wildlife management practices that quickly enhance the agricultural and forest landscape and contribute to the state and national goals of WHIP. Priorities will apply statewide.
3. To provide technical assistance to eligible participants with regard to the priority wildlife habitat needs as identified and the development of Wildlife Habitat Development Plans (WHDP) and implementation of authorized practices under WHIP.
4. Provide cost-share payments for the purpose of restoring upland wildlife habitat; wetland wildlife habitat; threatened and endangered species habitat; habitat for declining species of National or State significance; declining native habitats of National or State significance, such as longleaf pine ecosystem; aquatic habitat; and other types of wildlife habitat on eligible land.
5. Foster a positive change in public attitudes toward wildlife, wildlife habitat, and its relationship to the agricultural landscape. This will be accomplished utilizing technical assistance funds through newsletters, outdoor classrooms, workshops, on-sight consultation and plan preparation.

**II. WILDLIFE PRIORITIES**

Wildlife priorities were developed by team members with knowledge of state, regional, and national wildlife and fisheries resource concerns. Knowledge of these concerns came via the State Technical Committee process, personal communication with organizations and individuals with interests in wildlife on agricultural and forested landscapes. As a result practices to

emphasize community or ecosystem restoration were identified for cost share. The practices were selected for the purpose of restoring upland wildlife habitat; wetland wildlife habitat; threatened and endangered species habitat; habitat for declining species of National or State significance; declining native habitats of National or State significance, such as longleaf pine ecosystem; aquatic habitat; and other types of wildlife habitat on eligible land.

### **Priority Community/Ecosystem Concerns**

#### **A. Lack of desirable early successional components.**

1. Lack of transition zones in cropland, pastureland and hayland fields.
2. Lack of quality nesting habitat and rearing areas in old fields, pastureland, hayland, and utility rights-of-ways.
3. Lack of corridor habitat in open areas such as agricultural fields, pastureland, hayland, and old fields.

Solutions - Use any of these practices alone or in combination:

- Wildlife Buffers (647)
- Wildlife Transition Zones/Corridors (645)
- Light Strip Disking (645)
- Prescribed Burning (338)
- Firebreaks (394)
- Herbicide Conversion of Fescue and Bermudagrass to Native Vegetation (645)
- Early "Successional Vegetation" establishment (including Legumes) (647)
- Tree/Shrub Planting (612)
- Quality Vegetation Management in Abandoned Fields (647)

Species or ecosystems benefited: bobwhite quail, Bachman's sparrow, cottontail and swamp rabbits eastern wild turkey, grassland guild of birds, Black Belt and Jackson Prairie.

#### **B. Lack of winter water for waterfowl habitat, shallow water areas, and other seasonally flooded wetland areas for wildlife.**

Solutions - Use the practices: shallow water for wildlife (644) may include structure for water control and/or dike to create shallow water impoundments; winter water for wildlife (646) may include pumping, structure for water control, and/or dike to provide for winter water by November 15th each year; installation of water control structures may include beaver resistant water level control devices (644 and 646).

Species or ecosystems benefited: Migratory birds, including ducks, geese, shore and wading birds, also turkey, deer, reptiles, amphibians, and wetlands.

C. Lack of early successional wildlife habitat components in the under and midstory of woodlands dominated by pine or pine/hardwood.

Solutions - Reduce the amount of invasive, undesirable woody vegetation in the under and midstory canopies and remove litter with the practices of prescribed burning (338), and/or strip disking (645) in pine stands with canopies that have been thinned enough to allow ground level vegetation to respond. Use imazapyr to restore a diverse wildlife favorable under and midstory habitat in a pine stand (645). Utilize forest trails and landings (655) and firebreaks (394) to create additional wildlife habitat by planting desirable vegetation.

Species or ecosystems benefited: Bobwhite quail, cottontail and swamp rabbits, red-cockaded woodpecker, eastern wild turkey, gopher tortoise, several guilds of song birds, and the longleaf pine forest.

D. Restoration of declining native habitats.

Solution - Use the practices: Early Successional Vegetation (native grass) Establishment (including native legumes) (647), Tree/Shrub Establishment (612), Wetland Wildlife Habitat Management (644), Upland Wildlife Habitat Management (645), and Wetland Restoration (657).

Species or ecosystems benefited: Black Belt and Jackson prairie; longleaf pine; wetlands, and other native habitats.

E. Lack of habitat components for both Federal and State Listed Threatened and Endangered Species (TES).

Solutions - Benefits to TES and protection of the landowner's future options for use of the property should be protected through the voluntary agreement with U.S. Fish and Wildlife Service. That agency has an established program called "Safe Harbor". Points will be given for TES benefits when selected practices are applied within the identified area on the TES maps.

Species or ecosystems benefited: Gopher tortoises are benefited by the practices of hedgerow planting (645), prescribed burning (338), strip disking (645), conversion of fescue and bermuda (645), planting long leaf pines (612) and early successional vegetation (native grass) establishment (including native legumes) (647). Any bonus points awarded under gopher tortoise criteria will cover any points potentially earned for Mississippi sandhill crane, dusky gopher frog, Eastern indigo snake, southern hognose snake, and black pine snake. The ranges of these species fall within that of the gopher tortoise and beneficial practices for these species are a subset of those for the tortoise.

Red-cockaded woodpeckers are benefited in pine and pine/hardwood forests by prescribed burning (338)

### **Habitat Improvements**

Several habitats were determined to be of pressing concern for wildlife on the agricultural and forested landscape. These are native habitats and/or habitats of National or State significance. The needed diversity could be developed using WHIP to promote the use of practices which allow plant succession to proceed in some instances and to set plant succession back where it is necessary.

The established NRCS practices and standards will be used with only slight modifications added when necessary. For instance, the use of fescue, bermuda, ryegrass, etc. would not be a cost-share item under WHIP, except on a most critical area. Grass/weed areas should favor native species and introduced species that are non-invasive and preferred by wildlife such as Kobe lespedeza.

In addition, some practices such as the establishment of firebreaks must be done annually while others must be reestablished on 2-5 year rotations in order to accomplish the habitat objectives. These necessary recurring practices will be established in the Wildlife Habitat Development Plan (WHDP) prepared for the eligible participant and be eligible for cost-share when completed as per the WHDP.

### **Other Programs and Practices**

Many practices were previously mentioned that would be emphasized to address WHIP priorities. Some practices are funded through other conservation programs such as the Conservation Reserve Program (CRP) and Environmental Quality Incentives Program (EQIP), which should take priority. Where funds from these programs are not available WHIP funds could be used for improvements. CRP funds are available for riparian forest buffer on cropland or pasture, but not on cutover land, idle areas or backyard habitat. EQIP may be available for:

- field borders and hedgerows (equivalent in some cases to wildlife buffers and transition zones in WHIP) for erosion control, animal waste, and water quality concerns
- tree planting for erosion control, water quality, and sustainable forestry
- pond, trough or tank for grazing land concerns
- structure for water control for water quality and quantity concerns